

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 14:31:21 ; Search time 24.1524 Seconds
(without alignments)
1958.002 Million cell updates/sec

Title: US-10-017-479A-2

Sequence: 1 MEIEIGEQPPVKCSNFFA.....NSFPEWAQIYAALGNKTH 572

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

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Minimum DB seq length: 0
Maximum DB seq length: 2000000000
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Post-processing: Minimum Match 0%
                  Maximum Match 100%
                  Listing first 45 summaries
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Database :
Issued Patents AA:*
1: /cgn2_6/prodata1/1/aa/5 COMB.dep:*
2: /cgn2_6/prodata1/1/aa/6 COMB.dep:*
3: /cgn2_6/prodata1/1/aa/H_COMB.dep:*
4: /cgn2_6/prodata1/1/aa/FCRTS_COMB.dep:*
5: /cgn2_6/prodata1/1/aa/RS_COMB.dep:*
6: /cgn2_6/prodata1/1/aa/backtitle1.dep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1742	58.2	368	2	US-09-270-767-42029	Sequence 42029, A
2	1026	34.3	599	2	US-09-949-016-9866	Sequence 9866, A
3	898	30.0	169	2	US-09-270-767-57286	Sequence 57286, A
4	896	29.9	626	2	US-09-556-916-20	Sequence 20, Appl
5	895.5	29.9	627	2	US-09-556-916-8	Sequence 8, Appl
6	891	29.8	626	2	US-09-556-916-14	Sequence 14, Appl
7	891	29.8	626	2	US-09-556-916-22	Sequence 22, Appl
8	890.5	29.7	627	2	US-09-556-916-2	Sequence 2, Appl
9	890.5	29.7	627	2	US-09-556-916-10	Sequence 10, Appl
10	889.5	29.7	627	2	US-09-949-016-6840	Sequence 6840, Ap
11	886	29.6	626	2	US-09-556-916-16	Sequence 16, Appl
12	885.5	29.6	627	2	US-09-556-916-4	Sequence 4, Appl
13	879.5	29.4	601	2	US-09-949-016-9977	Sequence 9977, Ap
14	760	25.4	580	2	US-09-556-916-24	Sequence 24, Appl
15	759.5	25.4	581	2	US-09-556-916-12	Sequence 12, Appl
16	755	25.2	580	2	US-09-556-916-18	Sequence 18, Appl
17	754.5	25.2	581	2	US-09-556-916-6	Sequence 6, Appl
18	711	23.7	561	2	US-09-949-016-9161	Sequence 9161, Appl
19	605.5	20.2	527	2	US-09-602-787A-516	Sequence 516, Appl
20	577	19.3	230	2	US-09-270-767-43713	Sequence 43713, A
21	498.5	16.6	194	2	US-09-270-767-59102	Sequence 59102, A
22	463	15.5	180	2	US-09-270-767-42669	Sequence 42669, A
23	457	15.3	470	2	US-09-543-681A-5952	Sequence 5952, Appl
24	397	13.3	233	2	US-09-489-847-176	Sequence 176, Appl
25	362	12.1	332	2	US-09-270-767-57987	Sequence 57987, A
26	357	11.9	335	2	US-09-602-787A-518	Sequence 518, Appl
27	344	11.5	524	2	US-09-134-001C-5457	Sequence 5457, Ap

ALIGNMENTS

28	258.5	8.6	421	2	US-09-248-7986A-20749	Sequence 20749, A
29	187.5	6.3	624	2	US-09-543-681A-4343	Sequence 4343, A
30	19.5	6.0	540	2	US-09-902-540-11870	Sequence 11870, A
31	16.5	5.9	566	2	US-09-902-540-113547	Sequence 113547, A
32	172.5	5.8	493	2	US-09-580-236-21205	Sequence 2120, Ap
33	166.5	5.6	302	2	US-09-902-540-10045	Sequence 10045, A
34	162	5.4	470	2	US-09-438-185A-205	Sequence 209, Ap
35	159	5.3	430	2	US-09-134-001C-2981	Sequence 2881, Ap
36	150.5	5.0	547	2	US-09-489-039A-13843	Sequence 13843, A
37	147	4.9	443	2	US-09-602-787A-532	Sequence 532, App
38	137	4.6	167	2	US-09-248-796A-20740	Sequence 20740, A
39	137	4.6	363	2	US-09-270-767-12613	Sequence 4613, A
40	136.5	4.6	478	2	US-09-134-001C-4637	Sequence 4637, A
41	136.5	4.6	624	2	US-09-543-681A-7033	Sequence 7033, A
42	135	4.5	694	2	US-09-582-991A-22633	Sequence 22637, Ap
43	134.5	4.5	436	2	US-09-583-110-4729	Sequence 4729, Ap
44	134.5	4.5	440	2	US-09-107-433-5203	Sequence 5201, Ap
45	134	4.5	437	2	US-09-543-681A-6964	Sequence 6984, Ap

RESULT 1

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? Sequence 42029, Application US/09270767
? Patent No. 6703491
? GENERAL INFORMATION:
? APPLICANT: Homburger et al.
? TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
? FILE REFERENCE: File Reference: 7326-094
? CURRENT APPLICATION NUMBER: US/09/270,767
? CURRENT FILING DATE: 1999-03-17
? NUMBER OF SEQ ID NOS: 62517
? SOFTWARE: PatentIn Ver. 2.0
? SEQ ID NO 42029
? LENGTH: 368
? TYPE: PRT
? ORGANISM: Drosophila melanogaster
? FEATURE:
? OTHER INFORMATION: Xaa means any amino acid
? US-09-270-767-42029

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Query Match

Percent identity	99.99	99.99	99.99
Matches	333	0	22
Mismatches	0	22	0
Indels	0	0	0
Gaps	0	0	0

Qy	1	MEIIEGPOPOP	PVVKCSNF	FANHMKGLV	YVFLPBLCL	PMMLINEGA	EFRCWYLL	VMALFM	60			
Db	14	MEIIEGBOPOP	PPVKCSNF	FANHMKGLV	YVFLPBLCL	PMMLINEGA	EFRCWYLL	VMALFM	73			
Qy	61	VTBMLPLYTSMIT	IVAFPI	MGINS	SDOTCYL	FADTL	YMEFMGG	VMALAVEY	CNHLRL	120		
Db	74	VTBMLPLYTSMIR	IVAFPI	MGINS	SDOTCYL	FADTL	YMEFMGG	VMALAVEY	CNHLRL	133		
Qy	121	ALRYIQIVGCS	PRBLHFCGL	IMVTMFL	SMWIS	NAACTAM	CEPIQAVE	EELQAO	GVCKINH	180		
Db	134	ALRYIXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXX	MISNA	ACTAMCEPIQAVE	EELQAO	GVCKINH	193			
Qy	181	EPQYQIVGSKN	KNNEDBEP	PTKLTLL	CYLLG	IAVASS	IGGCGTII	IGATNL	TFKGI	YEAR	240	
Db	194	EPQYQIVGSKN	KNNEDBEP	PTKLTLL	CYLLG	IAVASS	IGGCGTII	IGATNL	TFKGI	YEAR	253	
Qy	241	FKONSTEOMD	FTEFMFY	SVPSML	VYTTLL	TFVFLQ	HFNG	GLMRPKS	KEAOE	VQRB	GADAVA	300
Db	254	FKNSTEQMD	FTEFMFY	SVPSML	VYTTLL	TFVFLQ	HFNG	GLMRPKS	KEAOE	VQRB	GADAVA	313
Qy	301	KKVIDQRYKDL	GPMSIH	IEIQWMLP	IFPMVNY	WYFTRK	PGIF	IGMDL	NSKDI	RNS	355	
Db	314	KKVIDQRYKDL	GPMSIH	IEIQWMLP	IFPMVNY	WYFTRK	PGIF	IGMDL	NSKDI	RNS	368	

RESULT 2

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US-09-949-016-9866
; Sequence 9866, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9866
; LENGTH: 599
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-9866
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Query Match      34.3%; Score 1026; DB 2; Length 599;
Best Local Similarity 37.2%; Pred. No. 3.4e-102;
Matches 219; Conservative 124; Mismatches 189; Indels 56; Gaps 10;
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QY 26 LVFLVPLVLPCLPVMNLNGBAEFRQVYLLVMAIFMVTEALPLVYTSMIPIVAFPIGIMS 85
DB 22 LIVFVPLILPLPLVLSKAYCAVAIIMALFMCBEALPLVNTALPLILPFIMGIVD 81
QY 86 SDQCRLYKQTLVMPMGIMVALAVEXCNLHKRLARVIOYVCSRRRLHFGILINVTM 145
DB 82 ASEVAVEYLKDSNLIFEGGLVLAIVERHMLHKRIARVLIYGVREAPILIGFIMLTAF 141
QY 146 LSMWISNACTAMCPITIAVLELOAGVCKINHEPOYQIVGKNKKNDEDEPYPTK- 203
DB 142 LSMWISNACTAMCPITIAVLELOAGVCKINHEPOYQIVGKNKKNDEDEPYPTK- 203
QY 204 -----ITLCYVIGIAVASLGGCGTIIIGTATNLTFGK 235
DB 196 TKLDNGQALPVTSASSEGRAHLISQKHLHLTQCMSLCYCSASIGIATILGTAPNLVLQ 255
QY 236 IYEAERFNKSTBOMFPFPMFVSVPMSLVTLTLTFVLOHFMGL-WRPSKEAOEVOGR 294
DB 256 QINSLEPQNGVNVAFASFAPFTWVILLLMLMLQILFLGFNRKNGIGERKO--- 312
QY 295 EGADVAKKVIDORYKDLGPMSEIHEIQVMIIFVWVYFTRKPGIFLGWADLL--NSKD- 351
DB 313 EQGOAAVCVIOTEHRLGLPMTFAKKAISILFVILVLMFTREBGFPLGNGNLAFPAKGE 372
QY 352 --IRNSMPTFVVVVMCMPLPANTAFRLRYCTRGGPV--PTGPTPSLITWKEIQTVPWG 407
DB 373 SMSVDGTVAFIGIMFIPSKFPGLODPENPGKAPLG---LDDMTVQAQKPMNI 428
QY 408 VFLIGGFALAEBSKOSGMAKLIIGNLIGKVLPSNVLLVTLVTLVAVFLIASSNVAIAN 467
DB 429 VLLIGGFALAEBSKOSGMAKLIIGNLIGKVLPSNVLLVTLVTLVAVFLIASSNVAIAN 467
QY 468 IIPVLAEMSLAIEIHPVLIPLPAGLACSNVAFHLPVSTPNALVAGYANIRTKOMAIAGI 527
DB 489 IFPIILASMAQALCLHPVLYMLPCTLATSLAFMLPVATPPNAIVSFPGDLKVLVDARAGF 548
QY 528 GPITITITILFVFCQVWGLVVPNLNSFPMQIYAA---ALGNKT 571
DB 549 LNLIIIGVLIITLAINSGIPLF-SLHSPSMAQSNTTAQCLPSLANTT 595
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RESULT 3
US-09-270-767-57286
; Sequence 57286, Application US/09270767
; Patent No. 6703491
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; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 57286
; LENGTH: 169
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-57286
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Query Match      30.0%; Score 898; DB 2; Length 169;
Best Local Similarity 100.0%; Pred. No. 4e-89;
Matches 169; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 187 VGGNKKNNDEDEPPYPTKITLCYVIGIAVASLGGCGTIIIGTATNLTFGIYEAPKNGTE 246
DB 1 VGGNKKNNDEDEPPYPTKITLCYVIGIAVASLGGCGTIIIGTATNLTFGIYEAPKNGTE 60
QY 247 QMDPFPMFVSVPMSLVTLTLTFVLOHFMGLWRPSKEAOEVOGRGEGADVAKKVIDQ 306
DB 61 QMDPFPMFVSVPMSLVTLTLTFVLOHFMGLWRPSKEAOEVOGRGEGADVAKKVIDQ 120
QY 307 RYKDLGPMSEIHEIQVMIIFVWVYFTRKPGIFLGWADLLNSKDINRS 355
DB 121 RYKDLGPMSEIHEIQVMIIFVWVYFTRKPGIFLGWADLLNSKDINRS 169
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RESULT 4
US-09-556-916-20
; Sequence 20, Application US/09556916
; Patent No. 6548271
; GENERAL INFORMATION:
; APPLICANT: Turner, Alex
; APPLICANT: Zambrowicz, Brian
; APPLICANT: Nehls, Michael
; APPLICANT: Friedrich, Glenn
; APPLICANT: Sands, Arthur T.
; TITLE OF INVENTION: No. 6548271el Human Transporter Proteins
; FILE REFERENCE: 6553-041-999
; CURRENT APPLICATION NUMBER: US/09/556,916
; CURRENT FILING DATE: 2000-04-21
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 20
; LENGTH: 626
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-556-916-20
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Query Match      29.9%; Score 896; DB 2; Length 626;
Best Local Similarity 32.5%; Pred. No. 4.9e-88;
Matches 205; Conservative 122; Mismatches 188; Indels 116; Gaps 15;
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QY 24 KGLVFLVPLVLPCLPVMNLNGBAEFRQVYLLVMAIFMVTEALPLVYTSMIPIVAFPIGMI 83
DB 12 KLLLVGCVPLILPLPLVLSKAYCAVAIIMALFMCBEALPLVNTALPLILPFIMGIVD 81
QY 84 MSSDQTRLVYKQTLVMPMGIMVALAVEXCNLHKRLARVIOYVCSRRRLHFGILINVT 143
DB 72 LRSNEVAAEFFKNTLLLVGICVAAAVEKMNLHKRIALRMVLMAGAKPGMLLFCMCC 131
QY 144 MFLSMWISNACTAMCPITIAVLELOAGVCKINHEPOYQIVGKNKKNDEDEP----- 198
DB 132 TLISMTLSNSTTAMWPIYBAVDEL-----VSAEDE-QVVAAGNSNTEAEPIISLDV 183
QY 199 ----- 198
DB 184 KNSQPSLELIFVNEESNADLTTLMHNNENLNGVPSITNPITKANQHKKQHPSEQEKPOVL 243
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QY 199 -PYPTK-----ITLCYVIGIAYASSLGCGCTTIGTATNLTFKGIYEAPFK 243
 DB 244 TSPRKQKLNKRKSHHDQMI CKCLSLSYSATIGLTTIIGTSTSL-----IFLEHFN 299
 QY 244 ----STEQMDPFTPEFYSVPSMLVYTLTLTFVLOHFMGL-WRPKSKAEQVORGEGADV 299
 DB 300 QYPAEAVNFGTWLFFSPFISLIMLVSWFMWMLFLGCKNFKETCSLSKKKTKRE-Q 357
 QY 300 AKKVIDORXKDLGPMSEIHIEIOWMLFIFMVVMYFTRKPGIFLGADLNSKDIR-NSMPT 358
 DB 358 SEKRIOEBEYKLDISYEMVTFPFIIMVLMFTREPGVPGMDSFPEKKGYRTADAV 417
 QY 359 IFVVMCMFLPANYAFRYCTRGGPVPTGP-----TPSLITWKFIQTQKVPWGLVFL 411
 DB 418 VFLGFLFLIPAK-----KPCF---GKKNDEGNOHSLGTESIITWKDFQKTMPEIIVL 470
 QY 412 GGGFALAGSKOSGMAKLIIGNALIGKVLBN-SVLLLVVILVAVFLTAPSSNVALNI 470
 DB 471 GGGYALAGSKSGSLSTWIGNOMLSLSLPPMAVTLTACTIVSI-VTEFVSNPATITTF 529
 QY 471 PVLAEMSLAIEIHPLYLIPAGLACSMAFHLPVSTPPNALVAGYANIRTKOMAIAGIGP 530
 DB 530 PFLCSLSTLHINPLTLPLVTWCISFVWMLPVGNPPNALVFSYGHQIKDMVKAGLGV 589
 QY 531 ITTITLFFVFCQTWGLVVPNLNSPPEWAOI 561
 DB 590 VIGLVIVWVAINTWGVSLF-HLDTPAMARV 619

RESULT 5
 US-09-556-916-8
 ; Sequence 8, Application US/09556916
 ; Patent No. 6548271
 ; GENERAL INFORMATION:
 ; APPLICANT: Turner, Alex
 ; APPLICANT: Zambrowicz, Brian
 ; APPLICANT: Nehls, Michael
 ; APPLICANT: Friedrich, Glenn
 ; APPLICANT: Sands, Arthur T.
 ; TITLE OF INVENTION: No. 6548271el Human Transporter Proteins
 ; FILE REFERENCE: 8535-041-999
 ; CURRENT APPLICATION NUMBER: US/09/556, 916
 ; CURRENT FILING DATE: 2000-04-21
 ; NUMBER OF SEQ ID NOS: 32
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 8
 ; LENGTH: 627
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-556-916-8

Query Match 29.9%; Score 895.5; DB 2; Length 627;
 Best Local Similarity 32.4%; Pred. No. 5.6e-86;
 Matches 205; Conservative 122; Mismatches 188; Indels 117; Gaps 15;
 QY 24 KGLVFLVPLLC.PVMLNLSGAEPRCMYLLVMAIFWVTEALPLVYTSMIPIVAFPIGMI 83
 DB 12 KLLLVVCPPLLLPLPLPHSSSEASCAYVLTAVVWSAVPGLAALVPAFLYPPFGV 71
 QY 84 MSSDOTRLYFKDTLVFMGIMVALAVEYCNLHKRLALRVIOIGVSGPRRLHFGIMVT 143
 DB 72 LRSNEVAEYFKNTLLLVGVICVAAVEKMKHRIALRMVMAAGAPGMLLFCMCT 131
 QY 144 MFLSMWISNACTAMCPITIAVLELOAGVCKINHEPOYQIYGKKNKNEDEP----- 198
 DB 132 TLLSMWLSNSTSTAMVPIEAVLOEL-----VSADE-QLVAGNSNTEABEPLISLV 183
 QY 199 ----- 198
 DB 184 KNSQPSLELIFVNEBSNADLTTLAHNENLANGVPSITNPITKANOHQSKQHPSEKQV 243
 QY 199 -PYPTK-----ITLCYVIGIAYASSLGCGCTTIGTATNLTFKGIYEAPFK 242

DB 244 LTPSPRKQKLNKRKSHHDQMI CKCLSLSYSATIGLTTIIGTSTSL-----IFLEHFN 299
 QY 243 N---STEQMDPFTPEFYSVPSMLVYTLTLTFVLOHFMGL-WRPKSKAEQVORGEGAD 298
 DB 300 NQYPAEAVNFGTWLFFSPFISLIMLVSWFMWMLFLGCKNFKETCSLSKKKTKRE-Q 357
 QY 299 VAKKVIDORXKDLGPMSEIHIEIOWMLFIFMVVMYFTRKPGIFLGADLNSKDIR-NSMP 357
 DB 358 LSEKRIQEBEYKLDISYEMVTFPFIIMVLMFTREPGVPGMDSFPEKKGYRTADAV 417
 QY 358 TIFVVMCMFLPANYAFRYCTRGGPVPTGP-----TPSLITWKFIQTQKVPWGLVFL 410
 DB 418 SVFLGFLFLIPAK-----KPCF---GKKNDEGNOHSLGTESIITWKDFQKTMPEIIVL 470
 QY 411 LGGFALAGSKOSGMAKLIIGNALIGKVLBN-SVLLLVVILVAVFLTAPSSNVALNI 469
 DB 471 VGGYALAGSKSGSLSTWIGNOMLSLSLPPMAVTLTACTIVSI-VTEFVSNPATITTF 529
 QY 470 IPLAEMSLAIEIHPLYLIPAGLACSMAFHLPVSTPPNALVAGYANIRTKOMAIAGIGP 529
 DB 530 LPLCSLSTLHINPLTLPLVTWCISFVWMLPVGNPPNALVFSYGHQIKDMVKAGLGV 589
 QY 530 TITITLFFVFCQTWGLVVPNLNSPPEWAOI 561
 DB 590 NVIGLVIVWVAINTWGVSLF-HLDTPAMARV 620

RESULT 6
 US-09-556-916-14
 ; Sequence 14, Application US/09556916
 ; Patent No. 6548271
 ; GENERAL INFORMATION:
 ; APPLICANT: Turner, Alex
 ; APPLICANT: Zambrowicz, Brian
 ; APPLICANT: Nehls, Michael
 ; APPLICANT: Friedrich, Glenn
 ; APPLICANT: Sands, Arthur T.
 ; TITLE OF INVENTION: No. 6548271el Human Transporter Proteins
 ; FILE REFERENCE: 8535-041-999
 ; CURRENT APPLICATION NUMBER: US/09/556, 916
 ; CURRENT FILING DATE: 2000-04-21
 ; NUMBER OF SEQ ID NOS: 32
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 14
 ; LENGTH: 626
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-556-916-14

Query Match 29.8%; Score 891; DB 2; Length 626;
 Best Local Similarity 32.3%; Pred. No. 1.7e-87;
 Matches 204; Conservative 122; Mismatches 189; Indels 116; Gaps 15;
 QY 24 KGLVFLVPLLC.PVMLNLSGAEPRCMYLLVMAIFWVTEALPLVYTSMIPIVAFPIGMI 83
 DB 12 KLLLVVCPPLLLPLPLPHSSSEASCAYVLTAVVWSAVPGLAALVPAFLYPPFGV 71
 QY 84 MSSDOTRLYFKDTLVFMGIMVALAVEYCNLHKRLALRVIOIGVSGPRRLHFGIMVT 143
 DB 72 LRSNEVAEYFKNTLLLVGVICVAAVEKMKHRIALRMVMAAGAPGMLLFCMCT 131
 QY 144 MFLSMWISNACTAMCPITIAVLELOAGVCKINHEPOYQIYGKKNKNEDEP----- 198
 DB 132 TLLSMWLSNSTSTAMVPIEAVLOEL-----VSADE-QLVAGNSNTEABEPLISLV 183
 QY 199 ----- 198
 DB 184 KNSQPSLELIFVNEBSNADLTTLAHNENLANGVPSITNPITKANOHQSKQHPSEKQV 243
 QY 199 -PYPTK-----ITLCYVIGIAYASSLGCGCTTIGTATNLTFKGIYEAPFK 243
 DB 244 TSPRKQKLNKRKSHHDQMI CKCLSLSYSATIGLTTIIGTSTSL-----IFLEHFN 299

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0Y 244 ---STECQMDFTPMFYSVSPMLVYTTLLTFPLQWHEMGJ--WPKSKKEAQEVRQREGADV 239
Db 300 QYPAAEVYVNBQTFWFLFSPFLISLIMLYVSMWHEMLFLGNCFKETCSLKKKKTKTRB---QL 357
QY 300 AKKVIDORRYKDLCPMSJHEIQVMILFIYVAVYFTRKPGIFLGWADLLNSKDIR--NSMPT 358
Db 358 SEKKIOEYEEYELGDISYBEMWTVGFPFLIMTVLWFLTRBPGFVGOMSPFEKKGYATDATVS 417
QY 359 IFVVMCFMPLPANYAEFLRYCTRGRGCVPTGP-----TPSLITMKPFIQTVPMQVFL 411
Db 418 VFLEFLFLFLIPAK---KPCF---GKKNGENQEHSLGEPILTMKDPQKTMPEIYIV 470
QY 412 GGGFALBEGSKOSGMAKLTGNMLIGKULP--SVLLVYILVYVFLTRFSSNAVAII 470
Db 471 GGGFALBSSGKSGSLSTWIGNOMLSLSTSPBAVYLLACITVSI-VTEFVSNPATIIFL 529
QY 471 PVIAEMSLAIEIHPYLLIPAGIACSMAFHLEVPSTPALVAGYANIRTMQADAGGPT 530
Db 530 PILCSLESTHINPLTYLLIPVMCISFAVMLPVGPNPAIYFSYGHQOIQIDMKAKAGVNA 589
QY 531 IITITILFVFCOTMGVYVYVYNLNSPPEMAQI 561
Db 590 VIGVIVYMAINMTGVSLE-CHIDTIPAMARV 619

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RESULT 7
US-09-556-916-22
; Sequence 22: Application US/09556916
; Patent No. 6548271
GENERAL INFORMATION:
APPLICANT: Turner, Alex
APPLICANT: Zambrowicz, Brian
APPLICANT: Nehls, Michael
APPLICANT: Friedrich, Glenn
APPLICANT: Sander, Arthur T.
TITLE OF INVENTION: No. 6548271el Human Transporter Proteins
FILE REFERENCE: 8535-041-999
CURRENT APPLICATION NUMBER: US/09/556,916
CURRENT FILING DATE: 2000-04-21
NUMBER OF SEQ ID NOS: 32
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 22
LENGTH: 626
TYPE: PRT
ORGANISM: Homo sapiens
US-09-556-916-22

Query Match      29 8%; Score 891; DB 2; Length 626;
Best Local Similarity 32.5%; Pred. No. 17e-87;
Matches 205; Conservative 121; Mismatches 189; Indels 116; Gaps 15;

QY      24 KGLVFLVPDLCLPMLINLEGAEPRCNYLLTNMAIFWVEALPLVTYSMIPVAFPIGI 83
| | | | | | | | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB      12 KLLLVVCYRPLLRLPLVLPHPSESSCAVYLIVNAYWSBANVDLGAALLVPAFLTYPFPGV 71
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY      84 MSSDOTCYLYRKDTLVNFMGIMVALAVEXCNLHKELATRVIIQVGCSPRRYHFGILMTV 143
| : : : | : | : : | : : | : | : | : | : | : | : | : | : | : | : | : |
DB      72 LRSNVAAEYFRKNTTLTLLVGVI CVAAVEKRNILHKETALRMVLTMGAKRGMTLLCFMCCT 131
| : : : | : | : : | : | : | : | : | : | : | : | : | : | : | : | : |

QY      144 MELSMWISNAACCTAMGPCITIAOVLEELQAQGVCKINHBPQYQIYVGANKKNNEDE---- 198
| | | | | | | | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB      132 TLLSMWLSNTSTTTAMVPIEAVALDEL-----VSAEDE-QLVAGNSNTEBAEPISLDV 183
| | | | | | | | : | : | : | : | : | : | : | : | : | : | : | : | : |

QY      199 ----- 198
DB      184 KNSQSLIELFVNESNADLTTLMHNNENNGVPSITNPVKIANQHGGKKHPSOEQPOLV 243
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY      199 -PYPTK-----ITLCYYUGIAVASSLGCGCTTIIGIATNLTFKGIVEARPKN 243
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

DB      244 TPSPRKQKLAKKRASHHDQMI CKCLSLISISYSATIGLTTIIIGTSTSL-----IFLEHFN 239
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY      244 ---STEQMDPETFMFYVSPMSLVYTLLTFVLIQWHFMGL-WRPKSKEAQEVQRGRGADV 239
| : : | : | : | : | : | : : : : | : | : | : : : : : : : : : : : :

```

```

Db      300 QYPAAEVNVNGTPEFSPFISLIMLVSPFMWMMHFLCONFKPCTSLKXKKKTRG--QL 357
QY      300 AKKVIDRKYDLSRMSIHEIQWMLIFPMVWYVYFTRKRGICILGNADLNSGDIF-NSMPT 358
Db      358 SEKIIGETKLDGISPEWVNGFFPILMTVLMLFTRGEPVPGWDSPEKKGYTDTATVS 417
QY      359 IFVVMCMFLPANYAEFLRYCTRGRGVPVTPG-----TPSLIMKFIQTQVPMGLVFL 411
Db      418 VFLEFLFLFLIPAK---KPCF--GKRDGKNOHSLSGTSSITIMKQFKTMPEIYILV 470
QY      412 GGGPALAEGSKOSMAKLIGNALLIGKXLPN-SYLLVVLIVLVANFLAFSSNALANIIT 470
Db      471 GGGPALAEGSKSGSLTWMIGNOMLSLSSIPPAVTLACILVSI-VTEFVSNPTITITFL 529
QY      471 PVLAEKSLAIEHPYLLIPAGLACSMAFHLPVSTPPNALVAGYANRRTDMAGIGPT 530
Db      530 PIICSISEQHIINPEYTLIPVMTCISFVWMLPVGNPRAIVFSYGHQIQIDMKVAGLVN 589
QY      531 IITIFLPEFCOTMGVYVYVYNLNSPBEAAOI 561
Db      590 VIGLVYVMVAINTMGVSLE-HLDITPAWAK 619

```

```

RESULT 8
US-09-556-916-2
; Sequence 2, Application US/09556916
; Patent No. 6548271
; GENERAL INFORMATION:
; APPLICANT: Turner, Alex
; APPLICANT: Zambrowicz, Brian
; APPLICANT: Nehls, Michael
; APPLICANT: Friedrich, Glenn
; APPLICANT: Sands, Arthur T.
; TITLE OF INVENTION: No. 6548271el Human Transporter Proteins
; FILE REFERENCE: 8535-041-999
; CURRENT APPLICATION NUMBER: US/09/556,916
; CURRENT FILING DATE: 2000-04-21
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 627
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-556-916-2

```

[illegible]

```
QY 299 VAKKVIDORVKDGPMSIHEIQWMLFIFVWVWVFTFKPGIFLGMDLNSKDIR-NSMP 357
DB 358 LSEKRIQOEYKELGDISYPEWVTGFFILMTVMTREBPGVPGWDSFPEKKGYRTDATV 417
QY 358 TIFVVMGCMPLPANYAFILRYCTRRCGPVPTGP-----TPSLITWKFQIOTKVPWGLVFL 410
DB 418 SVFLGFLLELPKAK---KPCF---GKNDGENOHSLSCTEITITMKDQKTMPEIIVL 470
QY 411 LGGFGALAEBSKQSGMAKLIGNALIGLKVLPN-SVLLVILVAVFLPAFSSNVAIANIT 469
DB 471 VGGGYALASGSKSGSLSTWIGNOMLSLSLPPMAVTLACILVSI-VTEFVSNPATITTF 529
QY 470 IPIVLAEMSLAIEHPILYILIPALACSMAPHLPVSTPPNALVAGYANITKMAIAGIGP 529
DB 530 LPIICLSLSTOHINPLTYLIPVTMCISFAVMLPVGNPNPAIVFSYGHCOIKOMVAKGLGV 589
QY 530 TITITITLFFCQTMGLVVPNLNSPPEWAQI 561
DB 590 NVIGLVIWVAINTWGSILF-HDITYPAMARV 620
```

RESULT 9

```
US-09-556-916-10
; Sequence 10, Application US/09556916
; Patent No. 6548271
; GENERAL INFORMATION:
; APPLICANT: Turner, Alex
; APPLICANT: Zambrowicz, Brian
; APPLICANT: Nebl, Michael
; APPLICANT: Friedrich, Glenn
; APPLICANT: Sanders, Arthur T.
; TITLE OF INVENTION: No. 6548271el Human Transporter Proteins
; FILE REFERENCE: 8535-041-999
; CURRENT APPLICATION NUMBER: US/09/556,916
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 627
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-556-916-10
```

Query Match 29.7%; Score 890.5; DB 2; Length 627;
Best Local Similarity 32.4%; Pred. No. 1.9e-87;
Matches 209; Conservative 121; Mismatches 189; Indels 117; Gaps 15;

```
QY 24 KGLVFLVPLICLPWMLNGBAEFRGMVLLVMAIFWVTEALPLVYTSMTPIVAFPIMGJ 83
DB 12 KLLLVCCVPLLLPLPLVLPVLPSSSEASCAYVLIVTAVWVSEAVPLGAALVPAFLVPPFGV 71
QY 84 MSSDQTCRLVFKDITLVFMFGIIVWALAVEYCNLHKRLALRVIOIVGSCPRRLHFGILMTV 143
DB 72 LRSNEVAAEFFKNTITLLVGVICVAAAVEKMNHLKRLALRVMAAGAKPGMLLCEMCT 131
QY 144 MFLSMWISNACTAMPCPIIOAVLEBLOAGQVCVKINHEPOYOIVGSKKNNEDEP----- 198
DB 132 TLISMWLSNSTTAMWPIVEAVIOEL-----VSAEDE-QVAGNSNTEBEAPISLDV 183
QY 199 ----- 198
DB 184 KNSQPSLELIFVNEBRSNADLTTLMHENENLNGVPSITNPITKANOHQKQKPSQEKPOV 243
QY 199 --PYPTK-----ITLCYVLGIAVASSLGGCTIIGTATNLTFKGIYEAFK 242
DB 244 LTPSPRKQKLNRRKYSRHHQMI CKCLSLISYSATIGLTIIGTISL-----IFLEHFN 299
QY 243 N---STEOMDPPTFMFYSVPSMLVYTLITFVLQMHFMGL-WRPKSKAEADQVQRGREGAD 298
DB 300 NQYPAAEVNVNFGITWFLFSFISLIMLVSWFMWMLFLGCFKFCISLKKKTKRE-Q 357
QY 299 VAKKVIDORVKDGPMSIHEIQWMLFIFVWVWVFTFKPGIFLGMDLNSKDIR-NSMP 357
```

```
DB 358 LSEKRIQOEYKELGDISYPEWVTGFFILMTVMTREBPGVPGWDSFPEKKGYRTDATV 417
QY 358 TIFVVMGCMPLPANYAFILRYCTRRCGPVPTGP-----TPSLITWKFQIOTKVPWGLVFL 410
DB 418 SVFLGFLLELPKAK---KPCF---GKNDGENOHSLSCTEITITMKDQKTMPEIIVL 470
QY 411 LGGFGALAEBSKQSGMAKLIGNALIGLKVLPN-SVLLVILVAVFLPAFSSNVAIANIT 469
DB 471 VGGGYALASGSKSGSLSTWIGNOMLSLSLPPMAVTLACILVSI-VTEFVSNPATITTF 529
QY 470 IPIVLAEMSLAIEHPILYILIPALACSMAPHLPVSTPPNALVAGYANITKMAIAGIGP 529
DB 530 LPIICLSLSTOHINPLTYLIPVTMCISFAVMLPVGNPNPAIVFSYGHCOIKOMVAKGLGV 589
QY 530 TITITITLFFCQTMGLVVPNLNSPPEWAQI 561
DB 590 NVIGLVIWVAINTWGSILF-HDITYPAMARV 620
```

RESULT 10

```
US-09-949-016-6840
; Sequence 6840, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6840
; LENGTH: 627
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-6840
```

Query Match 29.7%; Score 889.5; DB 2; Length 627;
Best Local Similarity 32.3%; Pred. No. 2.5e-87;
Matches 204; Conservative 122; Mismatches 189; Indels 117; Gaps 15;

```
QY 24 KGLVFLVPLICLPWMLNGBAEFRGMVLLVMAIFWVTEALPLVYTSMTPIVAFPIMGJ 83
DB 12 KLLLVCCVPLLLPLPLVLPVLPSSSEASCAYVLIVTAVWVSEAVPLGAALVPAFLVPPFGV 71
QY 84 MSSDQTCRLVFKDITLVFMFGIIVWALAVEYCNLHKRLALRVIOIVGSCPRRLHFGILMTV 143
DB 72 LRSNEVAAEFFKNTITLLVGVICVAAAVEKMNHLKRLALRVMAAGAKPGMLLCEMCT 131
QY 144 MFLSMWISNACTAMPCPIIOAVLEBLOAGQVCVKINHEPOYOIVGSKKNNEDEP----- 198
DB 132 TLISMWLSNSTTAMWPIVEAVIOEL-----VSAEDE-QVAGNSNTEBEAPISLDV 183
QY 199 ----- 198
DB 184 KNSQPSLELIFVNEBRSNADLTTLMHENENLNGVPSITNPITKANOHQKQKPSQEKPOV 243
QY 199 --PYPTK-----ITLCYVLGIAVASSLGGCTIIGTATNLTFKGIYEAFK 242
DB 244 LTPSPRKQKLNRRKYSRHHQMI CKCLSLISYSATIGLTIIGTISL-----IFLEHFN 299
QY 243 N---STEOMDPPTFMFYSVPSMLVYTLITFVLQMHFMGL-WRPKSKAEADQVQRGREGAD 298
DB 300 NQYPAAEVNVNFGITWFLFSFISLIMLVSWFMWMLFLGCFKFCISLKKKTKRE-Q 357
QY 299 VAKKVIDORVKDGPMSIHEIQWMLFIFVWVWVFTFKPGIFLGMDLNSKDIR-NSMP 357
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[illegible]

```

RESULT 11
US-09-556-916-16
; Sequence 16, Application US/09556916
; Patent No. 6548271
; GENERAL INFORMATION:
; APPLICANT: Turner, Alex
; APPLICANT: Zambrowicz, Brian
; APPLICANT: Nehls, Michael
; APPLICANT: Friedrich, Glenn
; APPLICANT: Sandoz, Arthur T.
; TITLE OF INVENTION: No. 6548271el Human Transporter Proteins
; FILE REFERENCE: 8535-041.999
; CURRENT APPLICATION NUMBER: US/09/556,916
; CURRENT FILING DATE: 2000-04-21
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 16
; LENGTH: 626
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-556-916-16

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Query Match 29.6%; Score 886; DB 2; Length 626;

Matches 204; Conservative 121; Mismatches 190; Indels 116; Gaps 15;

24 KGLVFLVPLCLCPVMLLNGAEFRCMYLLVMAIFWVTEALPLYVTSMIPIVAFPI 83

12 KLLVWCVP¹¹LL¹²PL¹³PVLHPSS¹⁴EASCA¹⁵VLI¹⁶VTAVY¹⁷WSEAV¹⁸PLGAA¹⁹LVP²⁰AFLYP²¹FFGV²² 71

84 MSSDOTCRLYEKDTLVMEMGIMVALAVEYCNIHKRIALRVIOIVGCSPRRLHFGGLIMVT 14

72 I P S N E V A A E Y E K N T T I . I . I V G V I C V A A A Y E K W N I . H K R I A I . B M V I . M A G A K P G M I . I . I C E M C C T 13

144 MEI SMWTSNACTAMCPTOAVT.FEIQAQGVCKTNHEPOYOTVGKKNNEDEP----- 19

123 ET CUM CUMSTAMPTIENIT OEI - - - - - VSAEDE-OIVAGNSNTEEPISLNV 18

1933

24 זווית הקשת α היא זווית בין שני רגלי הקשת. זווית הקשת β היא זווית בין שני רגלי הקשת.

04 ימרת התחזיתות דומות אצל כל המשתתפים

1. $\frac{1}{2}$ 2. $\frac{1}{3}$ 3. $\frac{1}{4}$ 4. $\frac{1}{5}$ 5. $\frac{1}{6}$ 6. $\frac{1}{7}$ 7. $\frac{1}{8}$ 8. $\frac{1}{9}$ 9. $\frac{1}{10}$ 10. $\frac{1}{11}$ 11. $\frac{1}{12}$ 12. $\frac{1}{13}$ 13. $\frac{1}{14}$ 14. $\frac{1}{15}$ 15. $\frac{1}{16}$ 16. $\frac{1}{17}$ 17. $\frac{1}{18}$ 18. $\frac{1}{19}$ 19. $\frac{1}{20}$ 20. $\frac{1}{21}$ 21. $\frac{1}{22}$ 22. $\frac{1}{23}$ 23. $\frac{1}{24}$ 24. $\frac{1}{25}$ 25. $\frac{1}{26}$ 26. $\frac{1}{27}$ 27. $\frac{1}{28}$ 28. $\frac{1}{29}$ 29. $\frac{1}{30}$ 30. $\frac{1}{31}$ 31. $\frac{1}{32}$ 32. $\frac{1}{33}$ 33. $\frac{1}{34}$ 34. $\frac{1}{35}$ 35. $\frac{1}{36}$ 36. $\frac{1}{37}$ 37. $\frac{1}{38}$ 38. $\frac{1}{39}$ 39. $\frac{1}{40}$ 40. $\frac{1}{41}$ 41. $\frac{1}{42}$ 42. $\frac{1}{43}$ 43. $\frac{1}{44}$ 44. $\frac{1}{45}$ 45. $\frac{1}{46}$ 46. $\frac{1}{47}$ 47. $\frac{1}{48}$ 48. $\frac{1}{49}$ 49. $\frac{1}{50}$ 50. $\frac{1}{51}$ 51. $\frac{1}{52}$ 52. $\frac{1}{53}$ 53. $\frac{1}{54}$ 54. $\frac{1}{55}$ 55. $\frac{1}{56}$ 56. $\frac{1}{57}$ 57. $\frac{1}{58}$ 58. $\frac{1}{59}$ 59. $\frac{1}{60}$ 60. $\frac{1}{61}$ 61. $\frac{1}{62}$ 62. $\frac{1}{63}$ 63. $\frac{1}{64}$ 64. $\frac{1}{65}$ 65. $\frac{1}{66}$ 66. $\frac{1}{67}$ 67. $\frac{1}{68}$ 68. $\frac{1}{69}$ 69. $\frac{1}{70}$ 70. $\frac{1}{71}$ 71. $\frac{1}{72}$ 72. $\frac{1}{73}$ 73. $\frac{1}{74}$ 74. $\frac{1}{75}$ 75. $\frac{1}{76}$ 76. $\frac{1}{77}$ 77. $\frac{1}{78}$ 78. $\frac{1}{79}$ 79. $\frac{1}{80}$ 80. $\frac{1}{81}$ 81. $\frac{1}{82}$ 82. $\frac{1}{83}$ 83. $\frac{1}{84}$ 84. $\frac{1}{85}$ 85. $\frac{1}{86}$ 86. $\frac{1}{87}$ 87. $\frac{1}{88}$ 88. $\frac{1}{89}$ 89. $\frac{1}{90}$ 90. $\frac{1}{91}$ 91. $\frac{1}{92}$ 92. $\frac{1}{93}$ 93. $\frac{1}{94}$ 94. $\frac{1}{95}$ 95. $\frac{1}{96}$ 96. $\frac{1}{97}$ 97. $\frac{1}{98}$ 98. $\frac{1}{99}$ 99. $\frac{1}{100}$ 100. $\frac{1}{101}$ 101. $\frac{1}{102}$ 102. $\frac{1}{103}$ 103. $\frac{1}{104}$ 104. $\frac{1}{105}$ 105. $\frac{1}{106}$ 106. $\frac{1}{107}$ 107. $\frac{1}{108}$ 108. $\frac{1}{109}$ 109. $\frac{1}{110}$ 110. $\frac{1}{111}$ 111. $\frac{1}{112}$ 112. $\frac{1}{113}$ 113. $\frac{1}{114}$ 114. $\frac{1}{115}$ 115. $\frac{1}{116}$ 116. $\frac{1}{117}$ 117. $\frac{1}{118}$ 118. $\frac{1}{119}$ 119. $\frac{1}{120}$ 120. $\frac{1}{121}$ 121. $\frac{1}{122}$ 122. $\frac{1}{123}$ 123. $\frac{1}{124}$ 124. $\frac{1}{125}$ 125. $\frac{1}{126}$ 126. $\frac{1}{127}$ 127. $\frac{1}{128}$ 128. $\frac{1}{129}$ 129. $\frac{1}{130}$ 130. $\frac{1}{131}$ 131. $\frac{1}{132}$ 132. $\frac{1}{133}$ 133. $\frac{1}{134}$ 134. $\frac{1}{135}$ 135. $\frac{1}{136}$ 136. $\frac{1}{137}$ 137. $\frac{1}{138}$ 138. $\frac{1}{139}$ 139. $\frac{1}{140}$ 140. $\frac{1}{141}$ 141. $\frac{1}{142}$ 142. $\frac{1}{143}$ 143. $\frac{1}{144}$ 144. $\frac{1}{145}$ 145. $\frac{1}{146}$ 146. $\frac{1}{147}$ 147. $\frac{1}{148}$ 148. $\frac{1}{149}$ 149. $\frac{1}{150}$ 150. $\frac{1}{151}$ 151. $\frac{1}{152}$ 152. $\frac{1}{153}$ 153. $\frac{1}{154}$ 154. $\frac{1}{155}$ 155. $\frac{1}{156}$ 156. $\frac{1}{157}$ 157. $\frac{1}{158}$ 158. $\frac{1}{159}$ 159. $\frac{1}{160}$ 160. $\frac{1}{161}$ 161. $\frac{1}{162}$ 162. $\frac{1}{163}$ 163. $\frac{1}{164}$ 164. $\frac{1}{165}$ 165. $\frac{1}{166}$ 166. $\frac{1}{167}$ 167. $\frac{1}{168}$ 168. $\frac{1}{169}$ 169. $\frac{1}{170}$ 170. $\frac{1}{171}$ 171. $\frac{1}{172}$ 172. $\frac{1}{173}$ 173. $\frac{1}{174}$ 174. $\frac{1}{175}$ 175. $\frac{1}{176}$ 176. $\frac{1}{177}$ 177. $\frac{1}{178}$ 178. $\frac{1}{179}$ 179. $\frac{1}{180}$ 180. $\frac{1}{181}$ 181. $\frac{1}{182}$ 182. $\frac{1}{183}$ 183. $\frac{1}{184}$ 184. $\frac{1}{185}$ 185. $\frac{1}{186}$ 186. $\frac{1}{187}$ 187. $\frac{1}{188}$ 188. $\frac{1}{189}$ 189. $\frac{1}{190}$ 190. $\frac{1}{191}$ 191. $\frac{1}{192}$ 192. $\frac{1}{193}$ 193. $\frac{1}{194}$ 194. $\frac{1}{195}$ 195. $\frac{1}{196}$ 196. $\frac{1}{197}$ 197. $\frac{1}{198}$ 198. $\frac{1}{199}$ 199. $\frac{1}{200}$ 200. $\frac{1}{201}$ 201. $\frac{1}{202}$ 202. $\frac{1}{203}$ 203. $\frac{1}{204}$ 204. $\frac{1}{205}$ 205. $\frac{1}{206}$ 206. $\frac{1}{207}$ 207. $\frac{1}{208}$ 208. $\frac{1}{209}$ 209. $\frac{1}{210}$ 210. $\frac{1}{211}$ 211. $\frac{1}{212}$ 212. $\frac{1}{213}$ 213. $\frac{1}{214}$ 214. $\frac{1}{215}$ 215. $\frac{1}{216}$ 216. $\frac{1}{217}$ 217. $\frac{1}{218}$ 218. $\frac{1}{219}$ 219. $\frac{1}{220}$ 220. $\frac{1}{221}$ 221. $\frac{1}{222}$ 222. $\frac{1}{223}$ 223. $\frac{1}{224}$ 224. $\frac{1}{225}$ 225. $\frac{1}{226}$ 226. $\frac{1}{227}$ 227. $\frac{1}{228}$ 228. $\frac{1}{229}$ 229. $\frac{1}{230}$ 230. $\frac{1}{231}$ 231. $\frac{1}{232}$ 232. $\frac{1}{233}$ 233. $\frac{1}{234}$ 234. $\frac{1}{235}$ 235. $\frac{1}{236}$ 236. $\frac{1}{237}$ 237. $\frac{1}{238}$ 238. $\frac{1}{239}$ 239. $\frac{1}{240}$ 240

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[illegible]

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[illegible]

338 SENIYEIENBDSIFENYDFFLENTVNE INEFOR VECNDOT ENUSANADNVO 7

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QY 359 IPVVVMCFMPLRANVATLRKCTRRGRVPRG-----TBSLIMTKFIQTVPBGGLVEL 4111
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 418 VFFGFLLFLPRAC---KPCF---GRKDGENQHSLETEPIITWKORQKTMPEIYLV 470
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 412 GGGFPALEGSKQSGMAKLGNALLIGKVLN-SVLLVLLVAVELTAESSNVANII 470
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 471 GGGVALLASGSKSGSLTWIGNOMLSLSLPRPAVITLACLIVSI-VTEFVSNPATITIFL 529
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 471 PVLAEMLAIEHPVLYLLIPAGLCSMAFHPVSTPRPALVAGVANIITKDMALAGIPT 530
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 530 PFLCSLETHIPIRLTYLLIPVMTCISPAFMLPEVGNPRPAIVSFSGHCQIKDMVYAGLVN 588
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 531 ITITITILFPCCQWGLVVPVNLNSPBEAQI 561
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 590 VIGIVIMVAINTMGVSLF-HLDTVPAMARV 619
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

```

```

RESULT 12
US-09-556-916-4
; Sequence 4, Application US/09556916
; Patent No. 6548271
; GENERAL INFORMATION:
; APPLICANT: Turner, Alex
; APPLICANT: Zambrowicz, Brian
; APPLICANT: Nehls, Michael
; APPLICANT: Friedrich, Glenn
; APPLICANT: Sarda, Arthur T.
; TITLE OF INVENTION: No. 6548271e1 Human Transporter Proteins
; FILE REFERENCE: 8535-.041.999
; CURRENT APPLICATION NUMBER: US/09/556.916
; CURRENT FILING DATE: 2000-04-21
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 627
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-556-916-4

```

Query Match 29.6%; Score 885.5; DB 2; Length 627;

Matched Local Similarity 32.3%; Read: NO: 0.00 0.00
 Matches 204; Conservative 121; Mismatches 190; Indels 117; Gaps 15

24 KGLVFLVPLCLPVMLLNEGAEFRCLLLVMAIFWTEALPLYVTSMIPIVAFPI 83

12 KLLVVCYPLLLPLEVTHPSSEASCAYLIVTAVYVWSEAVPLGAALVPAFLYPPFGV 71

84 MSNDOTCPI.YEKDTI.VMEMGIMVAI.AVEYCN.IHKRLALBVIOTVGCSPRBIHFGIMVT 143

72 TBSNEVAAEYFKNTTITLVGVTCVAAAVEKNIHKRIATBMVLGAGAKPGMLLTCEMCCT 131

144 MEISWTSNNACTAMMCBITOAVT.EELQAGGVCKTNHEBOYOTVGGNKRNEDEP----- 198

[illegible]

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043 2007-08-09

THE UNIVERSITY OF CHICAGO

— — — — —

.....

[illegible]

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

[illegible]

358 LSEBKIQEEIENLGDISIPEMVGFFIIMIVDMFIAKEGIVEGMDCEIUCINADNVA 117

358 IIFVVVCMLEFANIAFLKILKGGFVFIGF-----IFSDLIWNTAQINVEWGVLD 420

Db 418 SVFLGGLLPLIPK---KPCF---SKNDGNGEHSSTGTEPTITTKDQKMPHIVL 470
Qy 411 LGGFGALAEKSGKSGMAKLGKLVLEN-SVLLVVIYVAVELTAFSSNVAIAINTI 469
Db 471 VGGGVALAAGSGSSGSLTIGNOMLSLSPMAVTLIACIVSI-VTEBVSAPATITTF 529
Qy 470 IYVLAEMSLAIEIHPYLLIPAGLACSMAFHLPVSTPPNALVAGYANIKTKMALIGICP 529
Db 530 LPIFLGSLSETOHINPLIYTLIPVTMCISFAVMLPVGHPNPAIVPSYGHQIDKMWKAGLGV 589
Qy 530 TITITITLFPVCOYMGVLVYVNPINSPEMAOI 561
Db 590 NVIGLVIVMVAINTWGSLE-HLDTYPAWAKV 620

RESULT 13
US-09-949-016-9977
Sequence 9977, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949, 016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 9977
LENGTH: 601
TYPE: PR1
ORGANISM: Human
US-09-949-016-9977

Query Match 29.4%; Score 879.5; DB 2; Length 601;
Best Local Similarity 34.4%; Pred. No. 2.9e-86;
Matches 207; Conservative 124; Mismatches 190; Indels 81; Gaps 16;
Qy 27 VVFLV-PLCLPWLNLNEGAFRCMYLLVMAIFWVTEALPLYTSMIPYAFPIGIMS 85
Db 22 VVFTVLVLPPLVLAHKEA--CAVTLFVATWLTALPLSVTALLPSLMDPFGIMP 79
Qy 86 SDQCRLYFPKDTLVFMFGIMVALAVEYCNLHKRLARVIOIGVCSPRLLHGLIMTMF 145
Db 80 SKKVASAYFDKPHLLIGVLCIATSIKKNLHKRIALKNMVMGVNPAWLLTGMSSTAF 139
Qy 146 LSMWISNAACTAMCPITIOAVLE-----ELQAGVCCKINHEPOY-----QIVGKNKN 193
Db 140 LSMWLSMTSTAAVMPILAEAVVQIINAEAEVEATQMTYFNGSTNGHLEIDESVNGHEIN 199
Qy 194 NEDEPPPT-----KIT-LCYVGLIAYASS 217
Db 200 ERKERTKRPVPGYNDGTGKISSKLEKNSGKRTYRKGVTRKLTCLC---IAYST 255
Qy 218 LGGGGTIIATNTLTFKGIYAEAFKNSSTBOMDPTFMFYSVSMVYTLTFVLOHFM 277
Db 256 IGGTLTITGISTNLIFAEYFNTKRPD-CRLNFGSWFTFSPPALLIILLSMIWLQMLFL 314
Qy 278 G-----LWR-PKSKBAOEVOGRBGADVAKKVIDQRYKDLGMSIHEIQVILFIYVVM 331
Db 315 GFNFKEMKCGKTKVQO-----KACAEVIKQEOYOKGPIRVOEIVTLVLFIMALL 366
Qy 332 YFTKPGIFLGADLANSKD--IRNSMTTIVVVMCFMLPANYAFARCTRRGGPVPRGP 389
Db 367 WFSRDPGFVPGMSALFSEYPGFATDSTVALLIGLFLIPAK--TLTKTPTGELVADY 424

Qy 390 TPSLITWKEFIQTKVPMGLVFLGFGFALAEKSGKSGMAKLGKLVLENVSVLLVV 449
Db 425 SP-LITWKEFOQFMEMDIALIVGGGFALADGGEBSGLSKWINKSLPGLSLPAMILLIS 483
Qy 450 ILVAVFLTAFSSNVAIAINTIYVLAEMSLAIEIHPYLLIPAGLACSMAFHLPVSTPPNA 509
Db 484 SLMTVSLTEVASNPATITTLFPLISPLAEAHVNPYIIPITLCTSFALLPVANPNA 543
Qy 510 LVAGYANIKTKMALAGIPTITITITLFPVCOYMGVLVYVNPINSPEMAOIAAALGN 569
Db 544 IYFSGYGLKVIMVXAGLVNIVGAVVNLGICW-IYEMFDLYTPSN-----APAMSN 597
Qy 570 KT 571
Db 598 ET 599

RESULT 14
US-09-556-916-24
Sequence 24, Application US/09556916
Patent No. 6548271
GENERAL INFORMATION:
APPLICANT: Turner, Alex
APPLICANT: Zambrowicz, Brian
APPLICANT: Nehls, Michael
APPLICANT: Friedrich, Glenn
TITLE OF INVENTION: No. 6548271el Human Transporter Proteins
FILE REFERENCE: 8535-041-999
CURRENT APPLICATION NUMBER: US/09/556,916
CURRENT FILING DATE: 2000-04-21
NUMBER OF SEQ ID NOS: 32
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 24
LENGTH: 580
TYPE: PR1
ORGANISM: Homo sapiens
US-09-556-916-24

Query Match 25.4%; Score 760; DB 2; Length 580;
Best Local Similarity 29.6%; Pred. No. 2.6e-73;
Matches 187; Conservative 114; Mismatches 168; Indels 162; Gaps 17;
Qy 24 KGLVFLVPLCLPWLNLNEGAFRCMYLLVMAIFWVTEALPLYTSMIPYAFPIGIM 83
Db 12 KLLVVCVPLLLPLPLPSSASCAVYLVAVVWSAVPLGAALVPAFLYPRFGV 71
Qy 84 MSQDQCRLYFPKDTLVFMFGIMVALAVEYCNLHKRLARVIOIGVCSPRLLHGLIMTV 143
Db 72 LRNEVAAEYFKNTITLLVGVICVAAVVEKNLHKRIALRMVLMAGAKPGLLCPFCCT 131
Qy 144 MFLSMWISNACTAMCPITIOAVLEBLOAGVCCKINHEPOYQIVGKNKNNEDEP----- 198
Db 132 TLISMWLSMTSTTAMWPIEAVLQEL-----VSAEDE-QLVAGNSNTEEAEPISLDV 183
Qy 199 ----- 198
Db 184 KNSQPSLELIFVNEESNADLTTLMHENLNGVPSITNPITKANOHQKQHPQEKPOVL 243
Qy 199 -PYPTK-----ITLCYVGLIAYASSLGCGTIIATNTLTFKGIYAEAFKN 243
Db 244 TFSRKKQKNRKYSRHHQDQICKLSISYSATIGLITLITISTL-----IFLEHFN 299
Qy 244 ---STEQMDPTFMFYSVPMVYTLTFVLOHFMGL-WRPSKBAOEVOGRBGADV 299
Db 300 QYPAEAVNNGTWTLEFPLISLIMLVSMWMMHLLFGNPKFECSSKXKKTGR--QL 357
Qy 300 AKKVIDQRYKDLGMSIHEIQVILFIYVVMYFTKPGIFLGADLANSKDR--NSMPT 358
Db 358 SEKRIQEYKELGDISYPMWGTGFFFLIMTVLWFTREBPGVPGWDSFFEKGVRTDATVS 417
Qy 359 IFVVMGFMPLPANYAFARCTRRGGPVPRGP-----TSLITWKEFIQTKVPMGLVFL 411

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Db 418 VFLGELLFLIPAK---KPCF---GKNDGENOHSLGTESIITWKDFOKTMEIIV 470
Qy 412 GGGFALAEBSKQSGMAKLIIGNALIGKVLPN-SVLLLVITLVAVFLAFSSNVALANI 470
Db 471 GGGYALASGSKSGSLSTWIGNOMLSLSPPMVAVTLLACILVSI-VTEFVSNPATITIFL 529
Qy 471 PVLAEMSLAIEIHPYLILPAGLACSMAPHLPVSTPPNALVAGYANIRTKDMALAGIGPT 530
Db 530 PTL-----CS-----LVKAGLGVN 543
Qy 531 TITITLFFVFCQTGVLVVPNLNSFPPEMAOI 561
Db 544 VIGLIVMVAINTWGSIF-HLDTYPAMARV 573

RESULT 15
US-09-556-916-12
/ Sequence 12, Application US/09556916
/ Patent No. 6548271
/ GENERAL INFORMATION:
/ APPLICANT: Turner, Alex
/ APPLICANT: Zambrowicz, Brian
/ APPLICANT: Nehls, Michael
/ APPLICANT: Friedrich, Glenn
/ APPLICANT: Sands, Arthur T.
/ TITLE OF INVENTION: No. 6548271e1 Human Transporter Proteins
/ FILE REFERENCE: 8535-041-999
/ CURRENT APPLICATION NUMBER: US/09/556,916
/ CURRENT FILING DATE: 2000-04-21
/ NUMBER OF SEQ ID NOS: 32
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 12
/ LENGTH: 581
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-556-916-12

Query Match 25.4%; Score 759.5; DB 2; Length 581;
Best Local Similarity 29.6%; Pred. No. 3e-73;
Matches 187; Conservative 114; Mismatches 168; Indels 163; Gaps 17;

Qy 24 KGLVFLVPLLCIPVNLINBGAERFCMYLLVNAIFMVTEALPLYVTSMIPVAPIMGI 83
Db 12 KLLLVVCPLLPLPLVLPVLPSSASCAYVLIVAVVWSEAVPLGAALVPAFLYPPFGV 71
Qy 84 MSSDOTCRLYFKDTLVFMWGIWVALAVEXCNLHKRLALRVIOIVGCSPPRLHFGILMYT 143
Db 72 LNSNEVAABYFKTITLLVGVICVAAVAEKMLHKRIALRMVLMAGAKPGMLLCFMCT 131
Qy 144 MFLSMVISNAACTAMMCPILIAVLELQAGVCKINHEPOYQIVGNNKNNEDP----- 198
Db 132 TLISMWLSNSTSTAMMPIVEAVLOEL-----VSAEDE-QLVAGNSNTEEAEPISLDV 183
Qy 199 ----- 198
Db 184 KNSQPSLELIFVNEBRSNADLTTLNENENINGVPSITNPITKANOHGKKQHSQEKPOV 243
Qy 199 --PYPTK-----ITLCYVLGIAYVASSLGCGTIIIGTATNLTFKGIYEAERK 242
Db 244 LTPSPRKQKLNRRKYRSHHQMICLSLSISYATIGLTTITIGTSTL----IFLEHFN 299
Qy 243 N--STEQNDPPTFMRYSVPSMLVYTLTLTFVLOHFMGI-WRPKSKAEQEVQREGAD 298
Db 300 NQYPAAEVNVFGTWFPSFISLIMLVSWFMWMLFLGCFKETSLSKKKTKRE--Q 357
Qy 299 VAKKVVDQRYKDLGPMHSIHQIMLFIEMVVMVPTRKPGIFLGWADLLNSKDIR-NSMP 357
Db 358 LSEKRIQEBYEKGDISYPEWVTGFFILMTVLMFTREBGFVPGWDSFEKKGIYTDATY 417
Qy 358 TIFVVVMCFMLPANYAFLARYCTRRGCVPTGP-----TPSLITWKFIQTKVPMGI,VFL 410
Db 418 SVFLGFLFLIPAK---KPCF---GKNDGENOHSLSGTESIITWKDFOKTMEIIV 470
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Qy 411 IGGFALAEBSKQSGMAKLIIGNALIGKVLPN-SVLLLVITLVAVFLAFSSNVALANI 469
Db 471 VGGYALASGSKSGSLSTWIGNOMLSLSPPMVAVTLLACILVSI-VTEFVSNPATITIF 529
Qy 470 IPVLAEMSLAIEIHPYLILPAGLACSMAPHLPVSTPPNALVAGYANIRTKDMALAGIGPT 529
Db 530 LPII-----CS-----LVKAGLGVN 543
Qy 530 TITITLFFVFCQTGVLVVPNLNSFPPEMAOI 561
Db 544 NVIGLIVMVAINTWGSIF-HLDTYPAMARV 574

Search completed: May 5, 2006, 14:33:59
Job time : 26.1524 secs
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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 14:31:21 : Search time 23.7302 Seconds
(without alignments)
1958.002 Million cell updates/sec

Title: US-10-017-479a-3

Sequence: 1 MAFBGRKRVLRRCIFHM.....PESKSPDMAKIKNOTKI 562

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Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/1/1aa/5 COMB.pep:*
2: /cgn2_6/ptodata/1/1aa/6 COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/H COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/PTUS COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/RB COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	920	31.8	180	US-09-270-767-42669	Sequence 42669, A
2	844	29.1	599	US-09-949-016-9866	Sequence 9866, Ap
3	793	27.4	368	US-09-270-767-42029	Sequence 42029, A
4	743	25.6	626	US-09-556-916-20	Sequence 20, Appl
5	742.5	25.6	627	US-09-556-916-8	Sequence 8, Appl
6	741	25.6	626	US-09-556-916-14	Sequence 14, Appl
7	740.5	25.6	627	US-09-556-916-2	Sequence 2, Appl
8	738.5	25.5	627	US-09-949-016-6840	Sequence 6840, Ap
9	737	25.4	626	US-09-556-916-22	Sequence 22, Appl
10	736.5	25.4	627	US-09-556-916-10	Sequence 10, Appl
11	735	25.4	626	US-09-556-916-16	Sequence 16, Appl
12	734.5	25.4	627	US-09-556-916-4	Sequence 4, Appl
13	696	24.0	601	US-09-949-016-9977	Sequence 9977, Ap
14	661	22.8	132	US-09-270-767-57987	Sequence 57987, A
15	624	21.5	580	US-09-556-916-24	Sequence 24, Appl
16	623.5	21.5	581	US-09-556-916-12	Sequence 12, Appl
17	622	21.5	580	US-09-556-916-18	Sequence 18, Appl
18	621.5	21.5	581	US-09-556-916-6	Sequence 6, Appl
19	611	21.1	230	US-09-270-767-43713	Sequence 43713, A
20	582.5	20.1	527	US-09-949-016-8161	Sequence 8161, Ap
21	544	18.8	567	US-09-602-787A-516	Sequence 516, App
22	527	18.2	194	US-09-270-767-59102	Sequence 59102, A
23	453.5	15.7	470	US-09-543-681A-5952	Sequence 5952, A
24	427.5	14.8	169	US-09-270-767-57286	Sequence 57286, A
25	351	12.1	233	US-09-489-847-116	Sequence 116, App
26	327.5	11.3	335	US-09-602-787A-518	Sequence 518, App
27	283.5	9.8	524	US-09-134-001C-5457	Sequence 5457, Ap

28	244	8.4	421	2	US-09-248-796A-20749	Sequence 20749, A
29	196	6.8	624	2	US-09-543-681A-4343	Sequence 4343, Ap
30	182	6.3	614	2	US-09-489-039A-12605	Sequence 12605, A
31	179	6.2	302	2	US-09-540-10445	Sequence 10445, A
32	164	5.7	430	2	US-08-134-001C-2981	Sequence 2981, Ap
33	162.5	5.6	429	2	US-08-311-731A-287	Sequence 287, App
34	157	5.4	437	2	US-09-543-681A-6984	Sequence 6984, Ap
35	151.5	5.2	694	2	US-09-252-921A-22637	Sequence 22637, A
36	146.5	5.1	443	2	US-09-602-787A-532	Sequence 532, App
37	145.5	5.0	436	2	US-09-489-039A-13843	Sequence 13843, A
38	145	5.0	547	2	US-09-583-110-4729	Sequence 4729, Ap
39	145	5.0	440	2	US-09-107-433-5201	Sequence 5201, Ap
40	144.5	5.0	548	2	US-09-902-540-11870	Sequence 11870, A
41	140	4.8	449	2	US-09-328-352-7512	Sequence 7512, Ap
42	139.5	4.8	526	2	US-09-902-540-13547	Sequence 13547, A
43	132	4.6	595	2	US-09-543-681A-5886	Sequence 5886, Ap
44	132	4.6	751	2	US-09-934-868-58	Sequence 58, Appl
45	132	4.6	751	2	US-10-701-200-58	Sequence 58, Appl

ALIGNMENTS

RESULT 1
US-09-270-767-42669
; Sequence 42669, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patent Ver. 2.0
; SEQ ID NO 42669
; LENGTH: 180
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-42669

Query Match 31.8%: Score 920; DB 2; Length 180;
Best Local Similarity 100.0%: Pred. No. 8.6e-87;
Matches 180; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 383 AIDALLSMEYVLANIPWGLIFLLGGFALAVASREGLNIMISKAMQVLIGLPNIVQSI 442
DB 1 AIDALLSMEYVLANIPWGLIFLLGGFALAVASREGLNIMISKAMQVLIGLPNIVQSI 60
QY 443 TFLVLANFFSAFNANVVANIVLPILCEMSIALBLPILTLPAICLGISMYFLPVSTPPN 502
DB 61 TFLVLANFFSAFNANVVANIVLPILCEMSIALBLPILTLPAICLGISMYFLPVSTPPN 120
QY 503 AITVGVNHTKPKFACGIVPTIIGISVALVNTNTWGLIFPESKSPDMAKIKNOTKI 562
DB 121 AITVGVNHTKPKFACGIVPTIIGISVALVNTNTWGLIFPESKSPDMAKIKNOTKI 180
RESULT 2
US-09-949-016-9866
; Sequence 9866, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C0001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03


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QY 198 -----ITVAFAAGIAVASSIGGLTIGTGNLVPRGITYTERPSTVEITPANF 247
DB 254 RKYRSHHDQMI CKCLSLSSISYSATIGLITIGTSTSLIFLEHNNQYPAAEV-VNFGTW 312
QY 248 MPTYSITLAVNTVLTIVLITRMGLFRPNK-TGKIABANTNR-KLMEVDLRORHID 305
DB 313 WLFSPFISLI-----MLVSWFMWMLFLGCFKETSLSKKKTKEQLSEKRIQEBYER 368
QY 306 LGPMSCHIEIOMAIAPAFMIVLLITRKPGFVPGWSDLINRKVGSAGLS-FIVLLIFALP 364
DB 369 LGDISPEAVTGFPIILMTVLMFTREBGFVPGWDSFEKKGYRTDATVSVFLGFLFLPI 428
QY 365 TOYTFPKYCCGK--GPFTAQAI--DALISWEYLVKRNIPWGLIFLGGGFLAAVARENG 419
DB 429 AK----KPCFGKNDGENQESHSGTESIITWKDFOKTMEIWIIVLVGGYALASGSSG 484
QY 420 LNMISKAMQVILGLPNIVQSIITPVLANFSAFNANVVANVILPILCEMSLALHPL 479
DB 485 LSTWIGNOMLSSLPMAVTLTACIVSIYTEFVSAPATITIFLPLCSLSTLHINPL 544
QY 480 ILTLPAAGISWVYFLPVSTPPNAIVTQYAHIKTKYFACCGIVPTIIGISVALVNTNTW 539
DB 545 YTLIPVTCISPAVMLPVGNPNPAIVPSYGHQCIKQWVKAGLGWVIGLVIVVAINTWG 604
QY 540 LIIFPESKSPDPAKEIKNQ 560
DB 605 VSLF-HLDTPAMAR-VSNIT 623

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RESULT 5
US-09-556-916-8
; Sequence 8, Application US/09556916
; Patent No. 6548271
; GENERAL INFORMATION:
; APPLICANT: Turner, Alex
; APPLICANT: Zambrowicz, Brian
; APPLICANT: Nehls, Michael
; APPLICANT: Friedrich, Glenn
; APPLICANT: Sands, Arthur T.
; TITLE OF INVENTION: No. 6548271el Human Transporter Proteins
; FILE REFERENCE: 8535-041-999
; CURRENT APPLICATION NUMBER: US/09/556, 916
; CURRENT FILING DATE: 2000-04-21
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FaastSeq for Windows Version 3.0
; SEQ ID NO 8
; LENGTH: 627
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-556-916-8

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Query Match 25.6%; Score 742.5; DB 2; Length 627;
Best Local Similarity 28.1%; Pred. No. 1.2e-67;
Matches 175; Conservative 124; Mismatches 222; Indels 101; Gaps 14;
QY 26 IIPILPILITIGFOTDMAEFKCLMLITVMTALMITETLPIYVTALEPVLFCPLGLVN 85
DB 17 VCPVLLPLPVL---HPSSBASCAYVLIYAVVWSAVPLGAALVPAFLVFFGVLR 73
QY 86 ASIYCKOYFTDTIVFGLGILVALGIEYSNLTHTRIALRVIRIYGSRRRLVGLMSVTF 145
DB 74 SNEVAABYFKNTTLLVGVICVAAAVEKMLHKRIALRMVLMAGAKPGMLLCFMCCTTL 133
QY 146 MGLMISNAGTAMMCPYKALVNL-----DTNKIFPVYMQOEBRPV----- 187
DB 134 LSMVLSNTSTTAMVPIVEAVLDELVSABDQLVAGNSNTEBAEFLISLDVKNQSPLELI 193
QY 188 -----EEGEPHPSK----- 197
DB 194 FVNEBSNADLTTLNHNENLNGVPSITNPITKANGHQKQHPSEKQOVLTSPRKQKL 253
QY 198 -----ITVAFAAGIAVASSIGGLTIGTGNLVPRGITYTERPSTVEITPAN 246

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DB 254 NRKYSRSHHDQMI CKCLSLSSISYSATIGLITIGTSTSLIFLEHNNQYPAAEV-VNFGT 312
QY 247 EHFYSITPLAVNTVLTIVLITRMGLFRPNK-TGKIABANTNR-KLMEVDLRORHID 304
DB 313 WLFSPFISLI-----MLVSWFMWMLFLGCFKETSLSKKKTKEQLSEKRIQEBYER 368
QY 305 LGPMSCHIEIOMAIAPAFMIVLLITRKPGFVPGWSDLINRKVGSAGLS-FIVLLIFALP 363
DB 369 LGDISPEAVTGFPIILMTVLMFTREBGFVPGWDSFEKKGYRTDATVSVFLGFLFLPI 428
QY 364 TOYTFPKYCCGK--GPFTAQAI--DALISWEYLVKRNIPWGLIFLGGGFLAAVARENG 418
DB 429 AK----KPCFGKNDGENQESHSGTESIITWKDFOKTMEIWIIVLVGGYALASGSSG 484
QY 419 LNMISKAMQVILGLPNIVQSIITPVLANFSAFNANVVANVILPILCEMSLALHPL 478
DB 485 LSTWIGNOMLSSLPMAVTLTACIVSIYTEFVSAPATITIFLPLCSLSTLHINPL 544
QY 479 ILTLPAAGISWVYFLPVSTPPNAIVTQYAHIKTKYFACCGIVPTIIGISVALVNTNTW 538
DB 545 YTLIPVTCISPAVMLPVGNPNPAIVPSYGHQCIKQWVKAGLGWVIGLVIVVAINTWG 604
QY 539 GLIIFPESKSPDPAKEIKNQ 560
DB 605 VSLF-HLDTPAMAR-VSNIT 624

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RESULT 6
US-09-556-916-14
; Sequence 14, Application US/09556916
; Patent No. 6548271
; GENERAL INFORMATION:
; APPLICANT: Turner, Alex
; APPLICANT: Zambrowicz, Brian
; APPLICANT: Nehls, Michael
; APPLICANT: Friedrich, Glenn
; APPLICANT: Sands, Arthur T.
; TITLE OF INVENTION: No. 6548271el Human Transporter Proteins
; FILE REFERENCE: 8535-041-999
; CURRENT APPLICATION NUMBER: US/09/556, 916
; CURRENT FILING DATE: 2000-04-21
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FaastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 626
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-556-916-14

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Query Match 25.6%; Score 741; DB 2; Length 626;
Best Local Similarity 28.2%; Pred. No. 1.7e-67;
Matches 175; Conservative 123; Mismatches 223; Indels 100; Gaps 14;
QY 26 IIPILPILITIGFOTDMAEFKCLMLITVMTALMITETLPIYVTALEPVLFCPLGLVN 85
DB 17 VCPVLLPLPVL---HPSSBASCAYVLIYAVVWSAVPLGAALVPAFLVFFGVLR 73
QY 86 ASIYCKOYFTDTIVFGLGILVALGIEYSNLTHTRIALRVIRIYGSRRRLVGLMSVTF 145
DB 74 SNEVAABYFKNTTLLVGVICVAAAVEKMLHKRIALRMVLMAGAKPGMLLCFMCCTTL 133
QY 146 MGLMISNAGTAMMCPYKALVNL-----DTNKIFPVYMQOEBRPV----- 187
DB 134 LSMVLSNTSTTAMVPIVEAVLDELVSABDQLVAGNSNTEBAEFLISLDVKNQSPLELI 193
QY 188 -----EEGEPHPSK----- 197
DB 194 FVNEBSNADLTTLNHNENLNGVPSITNPITKANGHQKQHPSEKQOVLTSPRKQKL 253
QY 198 -----ITVAFAAGIAVASSIGGLTIGTGNLVPRGITYTERPSTVEITPAN 247
DB 254 RKYRSHHDQMI CKCLSLSSISYSATIGLITIGTSTSLIFLEHNNQYPAAEV-VNFGTW 312

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[illegible]

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RESULT 7
US-09-556-916-2
; Sequence 2, Application US/09556916
; Patent No. 6548271
; GENERAL INFORMATION:
; APPLICANT: Turner, Alex
; APPLICANT: Zambrowicz, Brian
; APPLICANT: Nehls, Michael
; APPLICANT: Friedrich, Glenn
; APPLICANT: Sands, Arthur T.
; TITLE OF INVENTION: No. 6548271el Human Transporter Proteins
; FILE REFERENCE: 8535-041-999
; CURRENT APPLICATION NUMBER: US/09/556, 916
; CURRENT FILING DATE: 2000-04-21
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 627
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-556-916-2

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[illegible]

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Db      313 WLFSPSPISLI-----LTVSWMFMWMMLFLGCGFKETGSLSKKTKKQEQSEKRIQBEYE 368
QY      305 DLEPMCEHLEQMAIAAFMIVLLIRKCGFPGMSDLINRKYVSAGLS-FLVLLIFAL 363
Db      369 KLDGDISPEHWGFFILMTVLMFTRREGPPAGMSFFEEKGYRTDAIVSFFGLFELI 428
QY      364 PTQYTEFYKCCCK--GPPTQAI--DAILSMEVYLRIPWGLFLFGGFGALAVASRET 418
Db      429 PAK----KCPGFKNGENQESHSLGTEPIITWKPQKTMPEIIVLWGGVALLASGSKS 484
QY      419 GUNIMISKAMQVILGLPNIVQSIIFVLANFSAFNANVYANVILPILCMSLALEHP 478
Db      485 GLSTWVIGNOMLSLSPWAVTLCLIVSVIYTESVPATITTLPLDILCSLSTLTINP 544
QY      479 LIITLPAQLGISMVFLLPVSTPNNAIVTQYAHIKTKYFAACGIVPIIIGISVALVNTW 538
Db      545 LYTLLIVPTMCISFAWMLPVGNPNNAIVSYGHQIKDMVKVAGLVNIGLIVVVAINTW 604
QY      539 GLIIFPEKSPDMAKEIKQF 560
Db      605 GWSLP-HLDTYPAKAK-VSNIT 624

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RESULT 8
US-09-949-016-6840
; Sequence 6840, Application US/09949016
; Patent No. 6812338
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PENDING FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6840
; LENGTH: 627
; TYPE: PRF
; ORGANISM: Human
; US-09-949-016-6840

```

Query Match	25.5%	Score 738.5	DB 2	Length 627
Best Local Similarity	28.0%	Pred. No. 3.1e-67		
Matches 1/4	Conservative 124	Mismatches 223	Indels 101	Gaps 14
QY	26	IIIPLTIPPIIYGQTDMAEFKCLMIVMALMITETLPYVTALPFLVPCBLGLVN	85	
Db	17	VCVPLLLPLPVL---HSSASACAYLLITAYVWSEAVPLCAALVAFILPFGVLR	73	
QY	86	ASIVCKQYFTDTIVFAGGLVALGIEYSNLHTRIALRVIRIVGSSPRRLFVGLMSVST	145	
Db	74	SNEVAAYEYFKNTLTLLGVGICVAAVAKNHLHRIALRWLMAGAKRGMILLCFMCCTLL	133	
QY	146	MGLWISNAGNMMCPYKALVNL---DTNKIFPYWTOGEPEV-----	187	
Db	134	LSMWLSNSTTAMWMPIVEAVLQELVSAEBOVLVAGNSNTBEAPELSDVKNSSQPSLELI	193	
QY	188	-----EGEGPPHPSK-----	197	
Db	134	FVNEEDRSNADLTTHMHNENLVGPSITNPIKTANQOQKKOHSSQCKPOVLTTPSPRKQKL	253	
QY	138	-----ITVAFAGIAYIASIGGLGTLITGTLNVPRGIVYEREPSTIVEITFAN	246	
Db	254	NKRYSHHDDQICCKSLSSISYATIGGLTTIIGTSTSLFLEHFNQYRAEV-VNFGT	312	
QY	247	FMEYSIPLMIVLVNTLVIIAFLITTHGCLGEPNSK-TGKIIAEANTNR-KLMEVDLRQHHI	304	


```
Db      369 KAGDISYPMWYGFFFILMTVLMFTREPGFVPMDSFFFEKKGYRTATVSVFGLFLFI 428
      364 PQYTFPKYCCGK---GPFTAQAI--DALISWEYVLRNIPWGLFLPGGFALAVASRET 418
      429 AK----KCFPKKNDGENQEHSLGTEPIITWKDFOKTWPMEIVILVGGVALAGSSKSSG 484
      419 LNMISKAMQVLIGLGNIVVOSTITFVLNPFSAFNANVVANVIVLPILCEMSLBLEHPL 478
      485 GLSTWIGNOMLSLSPMAVTLACILVSVTEFVSNPATITITFLPILCSLSETOHINPL 544
      479 ILTLPACGISMVYFLPVSTPPNAIVTQYAHIKTYFACCGIVPTIIGISVALVNTWTG 538
      545 YTLIPVTMCISFAVWLPVGNPNNAIVFSYGHQCKDMWKAGLVNVIGLVVMAINTWG 604
      539 LIIPESKSPDPAKEIKNOT 560
      605 VSLF-HLDTYPAMAR-VSNIT 624
      Db
```

RESULT 11

```
US-09-556-916-16
; Sequence 16, Application US/09556916
; Patent No. 6548271
; GENERAL INFORMATION:
; APPLICANT: Turner, Alex
; APPLICANT: Zambowicz, Brian
; APPLICANT: Nehls, Michael
; APPLICANT: Friedlich, Glenn
; APPLICANT: Sands, Arthur T.
; TITLE OF INVENTION: No. 6548271el Human Transporter Proteins
; FILE REFERENCE: 8535-041-999
; CURRENT APPLICATION NUMBER: US/09/556, 916
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 16
; LENGTH: 626
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-556-916-16
```

```
Query Match      25.4%; Score 735; DB 2; Length 626;
Best Local Similarity 28.0%; Pred. No. 7,2e-67;
Matches 174; Conservative 123; Mismatches 224; Indels 100; Gaps 14;

      26 IIPILITPLIYGFQTDMAEFKCLMLVTMALMITETLPIYVTLPLVFCPLGLVN 85
      17 VCVPLLLPLPVL--HPSSEASCAVYLIVTAVVWSEAVPLGAALVPAFLYPPFGVLR 73
      86 ASIYCKQYFDTIVVPLGLIYVLMGIEYSNLHRTIALRVIRIVGSPRLPVGLMSVSTF 145
      74 SNEVAAEFYKNTLLLVGVCVAANAVERKMDHKRIALRMVLMAGAKPGMLLCEMCCTTL 133
      146 MGLMISNAGTAMWCPYKALVNEL---DTNKIFPVYMTQEEBPV----- 187
      134 LSMWLSTSTTAMWPIVEAVLQELVSADEQLVAGNSNTEBAEPLSDVKNQSPLSLI 193
      188 -----EKGEPHPHSK----- 197
      194 FVNEBSNADLTTLMHENENLNGVPSITNPITKANQHGKQHPQVLPSPRQKXLN 253
      198 -----ITVAFAGIAYVASSIGGLTIGTGNLVFRGIYTERPPTSVTEITPANF 247
      254 NKYRSHHDOMICKCLSLSYSATIGGLTITIGTSTSLIFLHFNNOYPAAEV-VNFGTW 312
      248 MEYSIPLWYIVVNTVLIIFLITTHMGLFRPNK-TGKIIAEANTNR-KLMEDEVLRQRHI 305
      313 FLVSPFISLI-----MLVVSFMWMMHMLFLGCNFKETCSLSKKKTKREQLSEKRIQEEYE 368
      306 LGPMSCHIEQMAIAFAFMVLLITRKPGFVPMGMDLNRKVVGSASGLS-FIVLLIFALP 364
      369 KGDISYPMWYGFFFILMTVLMFTREPGFVPMDSFFFEKKGYRTATVSVFGLFLFI 428
      Db
```

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QY      365 TQYTFPKYCCGK---GPFTAQAI--DALISWEYVLRNIPWGLFLPGGFALAVASRETG 419
      429 AK----KCFPKKNDGENQEHSLGTEPIITWKDFOKTWPMEIVILVGGVALAGSSKSSG 484
      420 LNMISKAMQVLIGLGNIVVOSTITFVLNPFSAFNANVVANVIVLPILCEMSLBLEHPL 479
      485 LSTWIGNOMLSLSPMAVTLACILVSVTEFVSNPATITITFLPILCSLSETOHINPL 544
      480 ILTLPACGISMVYFLPVSTPPNAIVTQYAHIKTYFACCGIVPTIIGISVALVNTWTG 539
      545 YTLIPVTMCISFAVWLPVGNPNNAIVFSYGHQCKDMWKAGLVNVIGLVVMAINTWG 604
      540 LIIPESKSPDPAKEIKNOT 560
      605 VSLF-HLDTYPAMAR-VSNIT 623
      Db
```

RESULT 12

```
US-09-556-916-4
; Sequence 4, Application US/09556916
; Patent No. 6548271
; GENERAL INFORMATION:
; APPLICANT: Turner, Alex
; APPLICANT: Zambowicz, Brian
; APPLICANT: Nehls, Michael
; APPLICANT: Friedlich, Glenn
; APPLICANT: Sands, Arthur T.
; TITLE OF INVENTION: No. 6548271el Human Transporter Proteins
; FILE REFERENCE: 8535-041-999
; CURRENT APPLICATION NUMBER: US/09/556, 916
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 627
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-556-916-4
```

```
Query Match      25.4%; Score 734.5; DB 2; Length 627;
Best Local Similarity 28.0%; Pred. No. 8,1e-67;
Matches 174; Conservative 123; Mismatches 224; Indels 101; Gaps 14;

      26 IIPILITPLIYGFQTDMAEFKCLMLVTMALMITETLPIYVTLPLVFCPLGLVN 85
      17 VCVPLLLPLPVL--HPSSEASCAVYLIVTAVVWSEAVPLGAALVPAFLYPPFGVLR 73
      86 ASIYCKQYFDTIVVPLGLIYVLMGIEYSNLHRTIALRVIRIVGSPRLPVGLMSVSTF 145
      74 SNEVAAEFYKNTLLLVGVCVAANAVERKMDHKRIALRMVLMAGAKPGMLLCEMCCTTL 133
      146 MGLMISNAGTAMWCPYKALVNEL---DTNKIFPVYMTQEEBPV----- 187
      134 LSMWLSTSTTAMWPIVEAVLQELVSADEQLVAGNSNTEBAEPLSDVKNQSPLSLI 193
      188 -----EKGEPHPHSK----- 197
      194 FVNEBSNADLTTLMHENENLNGVPSITNPITKANQHGKQHPQVLPSPRQKXLN 253
      198 -----ITVAFAGIAYVASSIGGLTIGTGNLVFRGIYTERPPTSVTEITPANF 246
      254 NKYRSHHDOMICKCLSLSYSATIGGLTITIGTSTSLIFLHFNNOYPAAEV-VNFGTW 312
      247 MEYSIPLWYIVVNTVLIIFLITTHMGLFRPNK-TGKIIAEANTNR-KLMEDEVLRQRHI 304
      313 FLVSPFISLI-----MLVVSFMWMMHMLFLGCNFKETCSLSKKKTKREQLSEKRIQEEYE 368
      305 LGPMSCHIEQMAIAFAFMVLLITRKPGFVPMGMDLNRKVVGSASGLS-FIVLLIFALP 363
      369 KGDISYPMWYGFFFILMTVLMFTREPGFVPMDSFFFEKKGYRTATVSVFGLFLFI 428
      364 PQYTFPKYCCGK---GPFTAQAI--DALISWEYVLRNIPWGLFLPGGFALAVASRET 418
      QY
```

Db 429 PAR---KPCFGKNDGENSHSLGTEPIITWQFOQTMWEIVLIVGGSYALASGSKS 484
Qy 419 GLNIMISKAMQVIGLPIVVOGITFLANFSAFANVAVNIIVLPILCEMSLALHP 478
Db 485 GLSTWIGNOMLSSISPPAVITLACTIVIEFNSNPTITIFLILCSLSETHIN 544
Qy 479 LILTPACIGISMVFLPVSTPPNAIVTOYAHIKTKYFACCGIVPTIIGISVALVNTW 538
Db 545 LYLILVTCISPAWMLPVGNPNPAIVFSYGHCOIKDMVYAGGVNVIGLIVMAINTW 604
Qy 539 GLIIFPESKSPMDAKEIKQT 560
Db 605 GVSLEF-HLDTYPMAR-VSNIT 624

RESULT 13
US-09-949-016-9977
Sequence 9977, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949, 016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 9977
LENGTH: 601
TYPE: PRT
ORGANISM: Human
US-09-949-016-9977

Query Match 24.0%; Score 696; DB 2; Length 601;
Best Local Similarity 29.5%; Pred. No. 7.3e-63;
Matches 174; Conservative 121; Mismatches 224; Indels 70; Gaps 14;

Qy 27 IIPILITPLIYGFQDTMAEFKCLMLVTMALMITETLPIVYTAFLPVFCPLGLVNA 86
Db 26 VLVLPLPIVLH-----TKAECAVTLFVATFMLTEALPLSTALPLSLMLPFGIMPS 80
Qy 87 SIYCKQFTDTIVFPLGLIVALGIEYSNLTIRIALVRIVGSPRLFVGLMSVTFM 146
Db 81 KKYASAVFKDPHILLIGVLCISLSEKMNHKRIALMVMMVGVNPMMLTLGFMSSPAFL 140
Qy 147 GLMISNAGTAMCPYKALVNLDTNKKIPVYMTQ-----EEB 185
Db 141 SMLNSTSTAMWPIAEAVVOI-INAEAEVATQTYFNGSTNGLSEIDSVNGHEIN 199
Qy 186 PVEGEPPHP-----SKITVAFYAG-----IAVSSIGL 215
Db 200 ERREKTKVPQGNNDTKISSKVELEKSGKRTYRKKKGHVTRKLTCLCLASSTIGGL 259
Qy 216 GTLIGTGNLVFRGIYTEREPTSTVEITFANFMYSIP-LMVIVNVLVIAPLITMGL 274
Db 260 TTITGSTNLIFAEVFTRYPDCC-LNFGSMFTFSPALLIILSLMIMWLQWLF--LGF 316
Qy 275 -FRNSTGKIIEANTNRKLMEDVLRQHI DLGPNSCHEIQMAIAAPMIVLLITKPG 333
Db 317 NFKEMFCKGK---TKTVQAKACAEVIRKQYKIGPIRYOEIVTLVLPIIALMLFSDPG 373
Qy 334 FVFGMSDLIRKVVGSA--SGLSFIVLILFALPTQYFPPKCCGKGFPTQDAIDILSWE 391
Db 374 FVFGMSDLIRKVVGSA--SGLSFIVLILFALPTQYFPPKCCGKGFPTQDAIDILSWE 391
374 FVFGMSDLIRKVVGSA--SGLSFIVLILFALPTQYFPPKCCGKGFPTQDAIDILSWE 391

Qy 392 YVLARNIPWGLLELGGGFALAVASRETLNIMISKAMQVIGLPIVVOGITFLANF 451
Db 432 EROSEFMPDIALIVGGFALADCEBSGLSKNIGKLSPLGLPAMLILISSIMTSLT 491
Qy 452 AENAVVAVNIIVLPILCEMSLALHPILITLPACIGISMVFLPVSTPPNAIVTOYAH 511
Db 492 EVASNPATITLPLIPSLAEAHVNPILYILPSTLCSTFAPFLPVANPNPAIVFSGHL 551
Qy 512 KTKYFACCGIVPTIIGISVALVNTWGLIIPESKSPMDAKEIKQT 560
Db 552 KVIDWYKAGIVGVAVVAVMGLICTWIVPMF-DLYTSPMAVPMNSNET 599

RESULT 14
US-09-270-767-57987
Sequence 57987, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 57987
LENGTH: 132
TYPE: PRT
ORGANISM: Drosophila melanogaster
US-09-270-767-57987

Query Match 22.8%; Score 661; DB 2; Length 132;
Best Local Similarity 100.0%; Pred. No. 3.2e-60;
Matches 132; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 383 AIDAILSWERYLNIMGLIFLGGGFALAVASRETLNIMISKAMQVIGLPIVVOGI 442
Db 1 AIDAILSWERYLNIMGLIFLGGGFALAVASRETLNIMISKAMQVIGLPIVVOGI 60
Qy 443 TFLANFSAFNANVAVNIIVLPILCEMSLALHPILITLPACIGISMVFLPVSTPPN 502
Db 61 TFLANFSAFNANVAVNIIVLPILCEMSLALHPILITLPACIGISMVFLPVSTPPN 120
Qy 503 AIYTOYAHIKTK 514
Db 121 AIYTOYAHIKTK 132

RESULT 15
US-09-556-916-24
Sequence 24, Application US/09556916
Patent No. 6548271
GENERAL INFORMATION:
APPLICANT: Turner, Alex
APPLICANT: Zambrowicz, Brian
APPLICANT: Nehls, Michael
APPLICANT: Friedlich, Glenn
APPLICANT: Sande, Arthur T.
TITLE OF INVENTION: No. 6548271el Human Transporter Proteins
FILE REFERENCE: 8535-041-999
CURRENT APPLICATION NUMBER: US/09/556,916
CURRENT FILING DATE: 2000-04-21
NUMBER OF SEQ ID NOS: 32
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 24
LENGTH: 580
TYPE: PRT
ORGANISM: Homo sapiens
US-09-556-916-24

Query Match 21.5%; Score 624; DB 2; Length 580;
Best Local Similarity 25.4%; Pred. No. 1.9e-55;
Matches 158; Conservative 121; Mismatches 196; Indels 146; Gaps 16;

